Attorney Docket. No.: 5489P001 PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:	
Seok-Hyun Yun, et al.	Examiner: Suchecki, Krystyna
Application No.: 10/072,511	Art Unit: 2882
Filed: February 5, 2002	
For: ACOUSTO-OPTIC TUNABLE FILTER HAVING IMPROVED WAVE-DAMPING CAPABILITY	

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

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Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

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____ A statement pursuant to 37 C.F.R. §1.97(e) or

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Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: Jun 24, 2004

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LJV/cak (02/24/04)

Substitute for Form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/072,511
(use as many sheets as necessary)				Filing Date	February 5, 2002
				First Named Inventor:	Seok-Hyun Yun
				Art Unit	2882
				Examiner Name	Suchecki, Krystyna
Sheet	1	**of**	6	Attorney Docket Number	5489P001

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T[2]
		J.N. Blake, B.Y. Kim, H.E. Engan, and H.J. Shaw, "Analysis of intermodal coupling in a two-mode fiber with periodic microbends," Optics Letters, Vol. 12, No. 4, pp. 281-283 (April 1987).	
		B.Y. Kim, J. N. Blake, H.E. Engan, and H.J. Shaw, "Acousto-optic frequency-shifting in two-mode opitcal fibers," OFS '86, Tokyo, Japan (October 8-10, 1986).	
		H.E. Engan, B.Y. Kim, J.N. Blake, and H.J. Shaw, "Propagation and optical interaction of guided acoustic waves in two-mode optical fibers," Journal of Lightwave Technology, Vol. 6, No. 3, pp. 428-436 (March 1988).	
		J. O. Askautrud and H.E. Engan, "Fiber-optic frequency shifter with no mode change using cascaded acousto-optic interaction regions," Optics Letters, Vol. 15, No. 11, pp. 649-651 (June 1, 1990).	
		H.E. Engan, T. Myrtveit, and J.O. Askautrud, "All-fiber acousto-optic frequency shifter excited by focused surface acoustic waves," Optics Letters, Vol. 16, pp. 24-26 (January 1, 1991).	
		H.E. Engan, D. Ostling, P.O. Kval, and J.O. Askautrud, "Wideband operation of horns for excitation of acoustic modes in optical fibers," Proc. OFS (10), Glasgow, 11th - 13th Oct. 1994, pp. 568-571 (SPIE Proc. 2360).	
		D. Ostling and H.E. Engan, "Narrow-band acousto-optic tunable filtering in a two-mode fiber," Optics Letters, Vol. 20, No. 11, pp. 1247-1249 (June 1, 1995).	
		H.E.Engan, "Analysis of polarization mode coupling by acoustic torsional waves in optical fibers," J. Opt. Soc. Am. A., Vol. 13, No. 1, pp. 112-118 (January 1996).	
		D Ostling and H.E. Engan, "Spectral flattening by an all-fiber acousto-optic tunable filter," 1995 IEEE Ultrasonics Symposium, pp. 837-840.	
		D. Ostling and H.E. Engan, "Broadband spatial mode conversion by chirped fiber bending," Optics Letters, Vol. 21, No. 3, pp. 192-194 (February 1, 1996).	
		D. Ostling and H.E. Engan, "Polarization-selective mode coupling in two-mode Hi-Bi fibers," Journal of Lightwave Technology, Vol. 15, No. 2, pp. 312-320 (February 1997).	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT *(use as many sheets as necessary)*				Application Number	10/072,511
				Filing Date	February 5, 2002
				First Named Inventor:	Seok-Hyun Yun
				Art Unit	2882
				Examiner Name	Suchecki, Krystyna
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		H.E. Engan, "Acoustic torsional waves used for coupling between optical polarization modes in optical fibers," 1996 IEEE Ultrasonics Symposium, pp. 799-802.	
		D. Ostling and H.E. Engan, "Acousto-optic tunable filters in two-mode fibers," Optical Fiber Technology, Vol. 3, pp. 177-183 (1997).	
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		T.A. Birks, P.S.J. Russell, and C.N. Pannell, "Low power acousto-optic device based on a tapered single-mode fiber," IEEE Photonics Technology Lett., Vol. 6, No. 6, pp. 725-727 (June 1994).	
		M. Berwick and D.A. Jackson, "Coaxial optical-fiber frequency shifter," Optics Letters, Vol. 17, No. 4, pp. 270-272 (February 15, 1992).	
		W.P. Risk and G.S. Kino, "Acousto-optic fiber-optic frequency shifter using periodic contact with a copropagating surface acoustic wave," Optics Letters, Vol. 11, No. 5, pp. 336-338 (May 1986).	
		W.P. Risk and G.S. Kino, "Acousto-optic polarization coupler and intensity modulator for berefringent fiber," Optics Letters, Vol. 11, No. 1, pp. 48-50 (January 1986).	
		W.P. Risk, G.S. Kino, and B.T. Khuri-Yakub, "Tunable optical filter in fiber-optic form," Optics Letters, Vol. 11, No. 9, pp. 578-580 (September 1986).	
		S.F. Su, R. Olshansky, D.A. Smith, and J.E. Baran, "Flattening of erbium-doped fibre amplifier gain spectrum using an acousto-optic tunable filter," Electron Letters, Vol. 29, No. 5, pp. 477-478 (March 4, 1993).	
		Yijiang Chen, "Acousto-optic frequency shifter using coaxial fibers, "Optical and Quant. Electronics, Vol. 21, pp. 491-498 (1989).	
		J. Ji, D. Uttam, and B. Culshaw, "Acousto-optic frequency shifting in ordinary single-mode fibre," Electronics Letters, Vol. 22, No. 21, pp. 1141-1142 (October 9, 1986).	

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				Art Unit	2882
				Examiner Name	Suchecki, Krystyna
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		C.N. Pannell, R.P. Tatam, J.D.C. Jones, and D.A. Jackson, "Optical frequency shifter using linearly birefringent monomode fibre," Electronics Letters, Vol. 23, No. 16, pp. 847-848 (July 30, 1987).	
		K. Nosu, H.F. Taylor, S.C. Rashleigh, and J.F. Weller, "Acousto-optic phase modulator and frequency shifter for single-mode fibers," 1983 Ultrasonics Symposium, pp. 476-481 (1983).	
		B.Y. Kim, et al., "All-Fiber Acousto-Optic Frequency Shifter," Optics Letters, Vol. 11, No. 6, pp. 389-391 (June 1986).	
		H.E. Engan, et al., "Propagation and Optical Interaction of Guided Acoustic Waves in Two-Mode Optical Fibre," IEEE Journal of Lightwave Technology, Vol. 6, No. 3, pp. 428-436 (March 1988).	
		S.H. Yun, et al., "All-fiber Tunable Filter and Laser Based on Two-Mode Fiber," Optics Letters, Vol. 21, No. 1, pp. 27-29 (January 1996).	
		M.Y. Jeon, et al., "An Electronically Wavelength-Tunable Mode-Locked Fiber Laser Using an All-Fiber Acoustooptic Tunable Filter," IEEE Photonics Technology Letters, Vol. 8, No. 12, pp. 1618-1620 (December 1996).	
		H.S. Kim, et al., "All-fiber acousto-optic tunable notch filter with electronically controllable spectral profile," Optics Letters, Vol. 22, No. 19, pp. 1476-1478 (October 1, 1997).	
		S.H. Yun, et al., "Wavelength-Swept Fiber Laser with Frequency Shifted Feedback and Reasonantly Swept Intra-Cavity Acoustooptic Tunable Filer," IEEE Journal of Selected Topics in Quantum Electronics, Vol. 3, No. 4, pp. 1087-1096, Invited Paper (August 1997).	
		H.S. Kim, et al., "Actively gain-flattened Erbium-Doped Fiber Amplifier Over 35nm by Using All-Fiber Acoustooptic Tunable Filters, IEEE Photonics Technology Letters, Vol. 10, No. 6, pp. 790-792 (June 1998)	
		S.H. Yun, et al., "Dynamic Erbium-Doped Fiber Amplifier Based on Active Gain Flattening with Fiber Acoustooptic Tunable Filters," IEEE Photonics Technology Letters, Vol. 11, No. 10, pp. 1229-1231 (October 1999).	
		H.E. Engan, et al., "Optical Frequency Shifting in Two-Mode Optical Fibers by Flexural Acoustic Waves," IEEE 1986 Ultrasonics Symposium, pp. 435-438 (November 17-19, 1986).	

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		S.H. Yun, et al., "Electronically Tunable Fiber Laser Using All-Fiber Acousto-Optic Tunable Filter," IOOC '95, (10th International Conference on Integrated Optics and Optical Fibre Communication), Hong Kong, pp. 22-23 (June 26-30, 1995).	
		M.Y. Jeon, et al., "Harmonically Mode-Locked Fiber Using an All-Fiber Acousto-Optic Tunable Filter," OFC '97, Dallas, Texas, pp. 166-167 (February 16-22, 1997).	
		S.H. Yun, et al., "Fiber grating sensor array demodulation using wavelength-swept fiber laser," OFS-12, Williamsburg, Virginia, pp. 658-661 (October 28-31, 1997).	
		H.S. Kim, et al., "Dynamic gain equalization of erbium-doped filter amplifier with all-fiber -acousto-optic tunable filters," OFC '98, WG4, San Jose, California, USA, pp. 136-138 (February 22-27, 1998).	
		Y.W. Koh, et al., "Broadband Polarization-Insensitive All-Fiber Acousto-Optic Modulator," OFC '98, WM50, San Jose, California, USA, Vol. 2, pp. 239-240 (February 22-27, 1998).	
		K. Oh, et al., "Characterization of elliptic core fiber acousto-optic tunable filters operated in the single mode and the multi-mode range," OFC '98, WM59, San Jose, California, USA, Vol. 2, pp. 250-251 (1998).	
		B.Y. Kim, et al., "Fiber Based Acousto-Optic Filters," OFC/IOOC '99, San Diego, California, USA, pp. 199-201, Invited Paper (February 21-26, 1999).	
		B.Y. Kim, "Acousto-Optic Components for WDM Application," IEEE/LEOS Summer Topical Meetings, San Diego, California, USA, pp. 47-48, Invited Papers (July 26-28, 1999).	
		B.Y. Kim, "Acousto-Optic filters for fiber systems," ICO-128, San Francisco, California, USA, pp. 92-93, Invited Paper (August 2-6, 1999).	
		O. Lisboa, et al., "New configuration for an optical fiber acousto-optic frequency shifter," Proc. Soc. Photo-Opt. Instrum. Eng., Vol. 1267, pp. 17-23 (March 13-14, 1990).	

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		D.O. Culverhouse, et al., "Four port fused taper acousto-optic device using standard single mode telecommunication fiber," Electronic Letters, Vol. 31, No. 15, pp. 1279-1280 (July 20, 1995).	
		D.O. Culverhouse, et al., "Low-loss all-fiber acousto-optic tunable filter," Optics Letters, Vol. 22, No. 2, pp. 96-98 (January 15, 1997).	
		T.E. Dimmick, et al., "Compact all-fiber acoustooptic tunable filters with small bandwidth-length product," IEEE Photonics Technology Letters, Vol. 12, No. 9, pp. 1210-1212 (September 2000).	
		G. Kakarantzas, et al., "High strain-induced wavelength tunability in tapered fibre acousto-optic filters," Electronics Letters, Vol. 36, No. 14, pp. 1187-1188 (July 6, 2000).	
		T.E. Dimmick, et al., "Narrow-band acousto-optic tunable filter fabricated from highly uniform tapered optical fiber," Optical Fiber Communication Conference 2000, Vol. 37, pp. 25-27 (March 7-10, 2000).	
		T.A. Birks, et al., "Control of bandwidth in fiber acousto-optic tunable filters and other single-mode null coupler devices," CLEO, 1997, Vol. 11, pp. 444-445 (1997).	
		T.A. Birks, et al., "The acousto-optic effect in single-mode fiber tapers and couplers," Journal of Lightwave Technology, Vol. 14, No. 11, pp. 2519-2529 (November 1996).	
		D.O. Culverhouse, et al., "All-fibre Acousto-optic Tunable Filter Based on a Null Coupler," Optical Communication 1996, ECOC '96, Vol. 3, pp. 317-320 (September 15-19, 1996).	
		W.F. Liu, et al., "100% efficient narrow-band acoustooptic tunable reflector using fiber Bragg grating," Journal of Lightwave Technology, Vol. 16, No. 11, pp. 2006-2009 (November 1998).	
		F. Tian, et al., "Interchannel Interference in Multiwavelength Operation of Integrated Acousto-Optical Filters and Switches," Journal of Lightwave Technology, Vol. 13, No. 6, pp. 1146-1154 (1995).	
		T.E. Dimmick, D.A. Satorius, and G.L. Burdge, "All-Fiber Acousto-Optic Tunable Bandpass Filter, " Optical Society of America 2000, 3 pages total (2000).	

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		H.S. Kim, S.H. Yun, I.K. Hwang, and B.Y. Kim, "Single-mode-fiber acousto-optic tunable notch filter with variable spectral profile," Conference on Optical Fiber Communications, 1997 OSA Technical Digital Series, Vol. 6, pp. 395-398 (February 16-21, 1997)	

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WIPO ST.16 Kind Codes	Kind of document	Comments
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A2	Patent Application Publication (Republication)	Pre-grant publication available March 2001
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B1	Patent	No previously published pre-grant publication
B2	Patent	Having a previously published pre-grant publication and available March 2001
C1, C2, C3...	Reexamination Certificate	Previously used codes B1 and B2 are now used for granted Patents
E	Reissue Patent	No change
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